



# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 18 74 72 81

## Classification of the application (IPC):

B60W 40/068, B60W 40/105, B60W 40/076, B60W 40/10, B60W 40/13,  
B60W 40/101, B60W 50/00

## Technical fields searched (IPC):

B60W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	<b>RAJAMANI R ET AL:</b> "Algorithms for Real-Time Estimation of Individual Wheel Tire-Road Friction Coefficients" <i>AMERICAN CONTROL CONFERENCE, 2006 MINNEAPOLIS, MN, USA JUNE 14-16, 2006, PISCATAWAY, NJ, USA, IEEE</i> , 14 June 2006 (2006-06-14), DOI: 10.1109/ACC.2006.1657460, ISBN: 978-1-4244-0209-0, pages 4682-4687, XP010929745 * page 4683 * * page 4684, column 2 * * page 4686 *	1-5 6-12
X Y	<b>RAJESH RAJAMANI ET AL:</b> "Algorithms for Real-Time Estimation of Individual Wheel Tire-Road Friction Coefficients" <i>IEEE / ASME TRANSACTIONS ON MECHATRONICS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US</i> , 01 December 2012 (2012-12-01), vol. 17, no. 6, DOI: 10.1109/TMECH.2011.2159240, ISSN: 1083-4435, pages 1183-1195, XP011458902 * page 1183 - page 1193 *	1-3, 5 6-12
X Y	<b>GUAN HSIN ET AL:</b> "Identification of maximum road friction coefficient and optimal slip ratio based on road type recognition" <i>CHINESE JOURNAL OF MECHANICAL ENGINEERING : THE OFFICIAL JOURNAL OF THE CHINESE MECHANICAL ENGINEERING SOCIETY, ZHONGGUO-JIXIE-GONGCHENG-XUEHUI, CN</i> , 23 August 2014 (2014-08-23), vol. 27, no. 5, DOI: 10.3901/CJME.2014.0725.128, ISSN: 1000-9345, pages 1018-1026, XP036263211 * page 1019 - page 1024 *	1-4 6-12
X Y	<b>SUN FEI ET AL:</b> "Vehicle state estimation for anti-lock control with nonlinear observer" <i>CONTROL ENGINEERING PRACTICE, PERGAMON PRESS, OXFORD, GB</i> , 20 July 2015 (2015-07-20), vol. 43, DOI: 10.1016/J.CONENGPRAC.2015.07.003, ISSN: 0967-0661, pages 69-84, XP029257780 * page 71 - page 74 *	1, 2 6-12

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 23 October 2020	Examiner Stolle, Martin
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## CATEGORY OF CITED DOCUMENTS

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	<b>YANG JUAN ET AL:</b> "Adaptive estimation of road gradient and vehicle parameters for vehicular systems" <i>IET CONTROL THEORY AND APPLICATIONS, THE INSTITUTION OF ENGINEERING AND TECHNOLOGY, GB</i> , 13 April 2015 (2015-04-13), vol. 9, no. 6, DOI: 10.1049/IET-CTA.2014.0335, ISSN: 1751-8644, pages 935-943, XP006051915 * page 936 - page 938 *	6-12
Y	<b>WANKI CHO ET AL:</b> "Estimation of Tire Forces for Application to Vehicle Stability Control" <i>IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NJ, US</i> , 01 February 2010 (2010-02-01), vol. 59, no. 2, ISSN: 0018-9545, pages 638-649, XP011296348 * page 640 - page 642 *	9, 10

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Place of search Munich	Date of completion of the search 23 October 2020	Examiner Stolle, Martin
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